Software Version Description for

Translation Maps Segment Version 3.1

for DEBX Version 3.0

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SVD for Translation Maps 3.1 for DEBX 3.0

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Software Version Description for Translation Maps

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1.0 Scope

This Software Version Description (SVD) applies to the DOD E-Business Exchange System (DEBX) Translation Maps Segment. This document follows the standards set forth in *Military Standard Software Development and Documentation* (MIL-STD-498) and in the Data Item Description (DID) for a Software Version Description (DI-IPSC-81442), as tailored by Inter-National Research Institute (INRI).

1.1 Identification

This document applies to Version 3.1 of the DEBX Translation Maps Segment, which is a segment to be used with DEBX software, Version 3.0.

1.2 System Overview

The purpose of the DEBX Translation Maps Segment is to supply the DEBX Translator with the maps and associated files necessary to convert data to and from X12s and user-defined files (UDFs). This section covers the following items:

- Transaction sets supported by the Translation Maps Segment
- Systems supported by the Translation Maps Segment

1.2.1 Transaction Sets Supported by the Translation Maps Segment

The Translation Maps Segment supports translation for several transaction sets. Table 1-1 lists these transaction sets by identifier and title.

Table 1-1 Transaction Sets

Identifier	Title
214	Transportation Carrier Shipment Status
315	Status Details (Ocean)
521	Income or Asset Offset
820	Payment Order/Remittance Advice
824*	Application Advice
836	Procurement Notice
838	Trading Partner Profile
840	Request for Quotation
843	Response to Request for Quotation
850	Purchase Order
855	Purchase Order Acknowledgment
860	Purchase Order Change Request – Buyer Initiated
865	Purchase Order Change Acknowledgment/ Request – Seller Initiated

*Also used by DEBX for 824 acknowledgments of UDF→X12 translation.

1.2.2 Systems Supported by the Translation Maps Segment

The DEBX Translation Maps Segment provides maps for several systems. To view a list of the systems for which translation is currently available, as well as the transaction sets supported for incoming and outgoing translation, consult Table 1-2.

The third column from the right — 824 — indicates whether DEBX generates an 824 acknowledgment after UDF→X12 translation, and the last column on the right — 997 — indicates whether DEBX generates a 997 acknowledgment after X12→UDF translation. These 824 and 997 acknowledgments inform the originating site of the success or failure of the message's translation.

Table 1-2 Systems Supported by Translation Maps Segment

System	Transaction	X12 version release	UDF→X12	824	X12→UDF	997
CAPS-PC	810	4010	X		X	Yes
	824	4010		Yes		
CLM	864	4010	X			
EDA-PDF	NA	NA	NA	NA	NA	NA
GTN	214	3020			X	Yes
	214	3040			X	Yes
	214	3050			X	Yes
	214	4010			X	Yes
	315	3030			X	Yes
	315	3060			X	Yes
	315	4010			X	Yes
IGS	521	4010			X	Yes
IPC	820 - Travel (T) 820 -	3040	X	Yes		
	Partner (P) 820 - Bank	3050	X	Yes		
	(X)	3050	X	Yes		
	820 - CBA	3050	X	Yes		
	820 - DTS	3050	X	Yes		
	824 - DTS	3050	X	Yes		
MOCAS	810 (Commercial) 810	4010			X	Yes
	(Public Voucher)	4010			X	Yes
	810 (Progress Pay)					
		4010			X	Yes
MOCAS-RS	810 (Commercial) 810	NA	NA	NA	NA	Yes
	(Public Voucher)					Yes
	810 (Progress Pay)					
						Yes
MOCAS-X2X	810 (Commercial)	NA	NA	NA	NA	NA
	810 (Public Voucher)					
	810 (Progress Pay)					
PADDS (April	824	4010	X	Yes	X	Yes
Specification)	840	4010	X			
	843	4010		Yes	X	Yes
	850	4010	X	Yes		
	860	4010	X	Yes		
SAACONS	824	3010	X	Yes	X	Yes
	836	3010	X	Yes		
	840	3010	X	Yes		
	843*	3010			X	Yes
	850	3010	X	Yes		
	860	3010	X	Yes		
SIFS-PC	821	4010			X	Yes
	824	4010	X	Yes		
SOMARDS-PC	821	4010			X	Yes
	824	4010	X	Yes		

System	Transaction	X12 version release	UDF→X12	824	X12→UDF	997
SPS	824	3050	X	Yes		
	836	3050	X	Yes		
	840	3050	X	Yes		
	843	3050			X	Yes
	850	3050	X	Yes		
	855	3050			X	Yes
	860	3050	X	Yes		
	865	3050			X	Yes
SPS-EDA	NA	NA	NA	Yes	NA	NA
STANFINS-PC	821	4010			X	Yes
	824	4010	X	Yes		
STARS-WINS	810	3050			X	Yes
	864	3050	X			
TDCC	864	3050	X		X	

*For every SAACONS 843 that is translated, DEBX transmits a 3070 838.

1.3 Document Overview

The purpose of this document is to identify and describe the Translation Maps Segment, Version 3.1. This document contains the following sections:

Scope

States the purpose of the Translation Maps Segment, describes its role within DEBX, and states the purpose of this SVD. (Section 1.0)

Referenced Documents

Lists the documents applicable to this SVD. (Section 2.0)

Version Description

Provides descriptions of the directories installed by the Translation Maps Segment and the software changes made to the Translation Maps Segment. (Section 3.0)

Notes

Defines the acronyms and abbreviations used in this SVD. (Section 4.0)

2.0 Referenced Documents

The following documents are referenced in this SVD. In the event of a later version of a referenced document being issued, the later version shall supersede the referenced version.

- *Data Item Description – Software Version Description* (DI-IPSC-81442), December 1994.
- *Military Standard – Software Development and Documentation* (MIL-STD-498), December 1994.
- *System Administrator's Guide for DOD E-Business Exchange System, Version 3.0*, INRI, May 2000.

3.0 Version Description

The following subsections describe Version 3.1 of the Translation Maps Segment for DEBX Version 3.0.

3.1 Inventory of Materials Released

The following physical media and associated documentation make up Version 3.1 of the Translation Maps Segment for DEBX Version 3.0:

- One CD: Translation Maps Segment Version 3.1 for DEBX Version 3.0.
- *Software Version Description for Translation Maps Segment Version 3.1 for DEBX Version 3.0,* May 2000.

3.2 Changes Installed

The following subsections describe:

- Directories installed by the Translation Maps Segment
- Software changes to the Translation Maps Segment

3.2.1 Directories Installed

For a list of the directories that are put in place when Version 3.1 of the Translation Maps Segment is installed, see Table 3-1. Instructions for configuring channels for translation are provided in the Help system.

Table 3-1 Translation Maps Segment Directories

This directory	Contains	Appears in the GUI as
/h/data/global/EC/ Messages/Maps	Map families (that is, individual collections of map files) for each system for which translation is available	Options in the MESSAGE TYPE list box (other than X12) in the TRANSLATION tab of the edit channel window
	Look-up tables for each system for which translation is available	LOOK-UP TABLES list box in the TRANSLATION tab of the edit channel window
/h/data/local/EC/ html/MapDocs	Mapping specifications and implementation conventions for each system for which translation is available	View Documents button in the TRANSLATION tab of the edit channel window

This directory	Contains	Appears in the GUI as
/h/data/global/EC/Messages/MessageDesc	Descriptions of map files, transaction sets supported, and any unique addressing information for each system for which translation is available	Information in the DESCRIPTION box in the TRANSLATION tab of the edit channel window

3.2.2 Software Changes

The following software changes have been included in Version 3.1 (but were previously made available for electronic download from the K410 machine at INRI Newport News):

MAP Version 2.0.0.24 (5 May 2000)

1. *Problem:* The Message Description file for the TDCC map family does not accurately reflect the segment terminator and routing information.

   Solution: Modified the Message Description file to reference a segment terminator of HEX 15 vs. HEX 0A and updated routing information.

2. *Enhancement:* Added a weekly report that consists of a week's worth of SPS EDA daily reports. It contains a copy of the daily reports that were sent in the week defined from Saturday through the following Friday. The daily report was updated by adding three elements to the end of the existing record: Transaction Status, Channel, and Transmission Date. Valid values for the Transaction Status are 'P' (no errors in the transaction), 'W' (errors in the transaction but it is still passed to EDA), and 'F' (errors in the transaction and it is not passed to EDA).

   The weekly report can be configured like the daily report through the Admin tab on the Channel Configuration window of all channels that use SPS-EDA translation. Please note that the report is not channel driven and that configuring it on any one channel will generate a weekly report that contains a copy of the daily reports generated for all SPS-EDA channels in the week. The suggested usage is to configure the weekly report on the outgoing channel only.

3. P*roblem:* SPS UDF to X12 map allows dashes within the zip code fields for 836 and 860 transaction types.

   Solution: Modified map to remove all dashes from the zip code fields for all transaction types.

MAP Version 2.0.0.23 (1 May 2000)

1. *Problem:* EDR 061699 2138 - SPS Premap was using incomplete set of segment terminators.

   Solution: Updated segment terminators.

2. *Problem:* EDR 030800 1700 - SPS U2X translation was allowing dashes in zip code fields.

   Solution: Modified maps to remove dashes.

MAP Version 2.0.0.22 (7 April 2000)

1. *Enhancement:* Modified the GTN X12-to-UDF map for X12 3020, 3040, and 3050 214 transactions to convert Q501 status codes of "TM" to "T" for UDF element STD03.

2. *Enhancement:* Modified the GTN X12-to-UDF map for X12 3020 214 transactions from B1003 SCAC "DHL" so that X12 element N401 is optional.

3. *Enhancement:* Modified the GTN X12-to-UDF map for X12 3020, 3040, and 3050 214 transactions so that X12 element N403 is now valid if it has 1-9 characters.

4. *Problem:* The GTN X12-to-UDF map for 3020, 3040, and 3050 requires that X12 element N301 be present; however, the GTN Interface Requirements Design Document (IRDD) considers this element optional.

   Solution: Modified the GTN X12-to-UDF map for 3020, 3040, and 3050 so that X12 element N301 is optional.

5. *Problem:* The GTN X12-to-UDF map for 3020, 3040, and 3050 requires that X12 element N201 be present; however, the GTN Interface Requirements Design Document (IRDD) considers this element optional.

   Solution: Modified the GTN X12-to-UDF map for 3020, 3040, and 3050 so that X12 element N201 is optional.

6. *Enhancement:* Modified the GTN X12-to-UDF map for X12 3020 214 transactions so that X12 element Q506 is now valid if it has 1-30 characters.

7. *Enhancement:* Modified the GTN X12-to-UDF map for X12 3020 214 transactions so that the status code "X6" is now valid for X12 element Q501.

8. *Problem:* Segment terminators in the TDCC UDF created from the X12-to-UDF are not recognized by AT&T after Cleo protocol.

   Solution: Modified map to replace 0A segment terminators with hex15i segment terminators in the UDF created from the X12-to-UDF translation.

9. *Problem:* ST01 and ST02 were reversed in the X12 864 generated by the UDF-to-X12 translation.

   Solution: Placed proper ST01 and ST02 values in the X12 864 generated by the UDF-to-X12 translation.

MAP Version 2.0.0.21 (28 March 2000)

1. *Problem:* The GTN X12 997 map fails when its audit log input file has a size greater than one megabyte.

   Solution: The map now handles large audit log input files.

2. *Enhancement:* Added a new map family, TDCC. This map family is now included in the list of

map families that may be selected when configuring a channel. This map translates UDF transactions (TDCC 994s) received from the CONUS Freight Management (CFM) application into X12 864 transactions.

It also translates the X12 864s to UDF (TDCC 994). For a detailed description of the map family, see the map description file that appears in the DESCRIPTION box on the TRANSLATION tab of the Edit Channel dialog box (accessed as described in Section 4.1.2 of the Software User's Guide for the Electronic Commerce Processing Node [ECPN]).

MAP Version 2.0.0.20 (13 March 2000)

1. *Enhancement:* Added a new map family, Car Location Message (CLM). This map family is now included in the list of map families that may be selected when configuring a channel. For a detailed description of the map family, see the map description file that appears in the DESCRIPTION box in the TRANSLATION tab of the Edit Channel dialog box (accessed as described in Section 4.1.2 of the Software User's Guide for Electronic Commerce Processing Node).

2. *Enhancement:* For GTN, added translation for CLM transactions (in GTN UDF format), including generation of UDF 997s and data quality/data timeliness reporting.

3. *Problem:* The GTN X12-to-UDF maps for 3040 and 3050 do not correctly map X12 elements Q514 and Q515 to the UDF LOC segment.

   Solution: The GTN X12-to-UDF maps for 3040 and 3050 now map X12 element Q515 to the UDF element LOC06. UDF element LOC05 is mapped to "ZIP1" if X12 element Q514 is "LU". UDF element LOC05 is mapped to "SPLC" if X12 element Q514 is "ZZ".

4. *Problem:* The GTN X12-to-UDF map for 3050 requires that X12 segment B2A be present; however, the GTN Interface Requirements Design Document (IRDD) considers this segment optional.

   Solution: Modified the GTN X12-to-UDF map for 3050 so that X12 segment B2A is optional.

5. *Enhancement:* For X12 3050 214 transactions from GS02 address "UP", modified the GTN X12-to-UDF map to convert Q501 status codes of "3" to "AG" for element STD03 of the UDF.

6. *Enhancement:* For X12 3050 214 transactions from GS02 address "UP", modified the GTN X12-to-UDF map to convert Q501 status codes of "H" to "ZZ" for element STD03 of the UDF.

7. *Enhancement:* Modified the GTN X12-to-UDF map for X12 3020 214 transactions to map X12 elements N901 and N902 to UDF elements LOC05 and LOC06 if X12 element N901 is "ZZ".

8. *Enhancement:* Updated the GTN CLM-to-UDF map to remove all non-alphanumeric characters from the UDF element REF02.

9. *Enhancement:* Added all carriers scheduled to use the GTN maps to the GTN carrier table, gtncarr.tbl.

MAP Version 2.0.0.19 (25 February 2000)

Enhancement: To enable the transfer of messages for the Mechanization of Contract Administration Service (MOCAS), the following maps were added to the ECPN map segment:

1. X12 to MOCAS UDF - Translates three types of X12 invoices (Commercial, Public Voucher, and Progress Pay) into MOCAS UDF messages.

2. X12 4010 to X12 3050 - Translates Commercial, Public Voucher, and Progress Pay invoices that are compliant with the 4010 Implementation Convention (IC) into the 3050 IC format.

MAP Version 2.0.0.18 (11 February 2000)

1. *Enhancement:* The SPS-EDA index-to-CSV file map has been modified as follows:

   - The three D ODAAC numbers in the index file are no longer used as look-up keys in the trading partner database (TPDB).

   - The Data Universal Numbering System (DUNS) number is now validated for length and format and is used as a look-up key in the TPDB. A DUNS number that is invalid results in a warning statement in the SPS-EDA Daily Data Quality (CSV) report.

2. *Enhancement:* The SPS-EDA Daily Data Quality (CSV) report has been modified as follows:

   - The DUNS number is now included in a separate table column.

   - Warnings for invalid DUNS numbers or DUNS numbers that are not in the TPDB are now included in the warning column.

   - Warnings for DODAAC numbers that are not in the TPDB are no longer included in the warning column, because DODAAC numbers are no longer used as look-up keys (see Enhancement 1).

3. *Problem:* The SPS-EDA 824 translation status message, which is generated as a result of the postscript-to-PDF and index-to-CSV file translations, has assigned ICN and GCN values of zero.

   Solution: Modified the SPS-EDA 824 map to populate the ICN and GCN fields of the translation status message with values that fall within the designated ICN and GCN ranges defined in the System Setup window.

4. *Problem:* While translating SPS-EDA index files to CSV files, index files that fail parsing are not recorded as failures in the SPS-EDA Daily Data Quality (CSV) report.

   Solution: Modified the SPS-EDA index-to-CSV file map to report all parsing errors for index files.

MAP Version 2.0.0.17 (28 January 2000)

1. *Enhancement:* For SPS-EDA, Mercator now performs field validation checks for each of the fields in the index file.

2. *Enhancement:* For SPS-EDA, added 824 acknowledgments for each pair of SPS-EDA files (postscript and index) that fails translation. These failure notifications can be sent either to any email address that you specify or to the originating site over the incoming channel. You can configure acknowledgments in the ADMIN tab of the Edit Channel dialog box.

MAP Version 2.0.0.16 (13 January 2000)

1. *Enhancement:* For GTN, added translation for X12 4010 315 transactions, including generation of X12 and UDF 997s.

2. *Enhancement:* Added all carriers scheduled to use the GTN maps to the GTN carrier table.

3. *Enhancement:* Modified GTN X12-to-UDF and 997 UDF maps (for 4010 315 transactions) to convert the location qualifier "EA" to "ZZ" (for X12 element B412) when populating element STS15 in the UDF.

4. *Enhancement:* Modified GTN X12-to-UDF and 997 UDF maps (for 4010 315 transactions) to convert the reference ID qualifier "SCA" to "ZZ" (for X12 element Q210) when populating element STD13 in the UDF.

5. *Enhancement:* For GTN X12-to-UDF and 997 maps (for 3030 315, 3060 315, and 4010 315 transactions), modified elements STS12 and STS13 to be blank during X12-to-UDF translation. These elements were previously populated with X12 elements B406 and R402, but the elements are no longer used.

6. *Enhancement:* For GTN X12-to-UDF and 997 UDF maps (for 3040 214 and 3050 214 transactions), modified the rules to populate the REFH segments in the UDF, as follows:

   - Populate UDF segment REFH with all occurrences of X12 segment N9 (030).
   - Populate UDF segment REFH with the first occurrence of X12 segment N9 (110) in the first iteration of the N1 loop (100).
   - Limit the REFH segment to no more than 300 occurrences.

7. *Enhancement:* Modified the GTN X12-to-UDF maps (for 3030 315 and 4010 315 transactions) to make element Q209 (Flight/Voyage Number) optional when the B403 status code is "EE".

8. *Problem:* The GTN X12-to-UDF and 997 UDF maps (for 3060 315 transactions) incorrectly populate UDF element STD06 with the X12 element Q203.

   Solution: Modified the maps so that UDF element STD06 is now populated with X12 element Q204.

9. *Problem:* GTN X12-to-UDF and 997 UDF maps (for 3050 214 transactions) do not recognize the following X12 elements, which are valid: N405 and N406.

   Solution: Modified the maps to recognize N405 and N406 as valid elements.

10. *Problem:* The GTN X12-to-UDF map (for 3050 214 transactions) incorrectly truncates the value of REFO02 to one character.

    Solution: Modified the map so that it does not truncate the value of REFO02.

11. *Problem:* The GTN 997 UDF map (for 3020 214 transactions) lists element B1004 as a number, which causes the map to fail when translating messages.

    Solution: Changed the map to list B1004 as a text element. Also modified all other elements listed as numbers so that they are listed as text elements.

12. *Problem:* The GTN X12-to-UDF map (for 3030 315, 3060 315, and 4010 315 transactions) lists element STD10 as an integer, which causes decimal numbers to be truncated during mapping.

    Solution: Modified the map to list STD10 as a decimal, not an integer.

MAP Version 2.0.0.15 (22 December 1999)

1. *Problem:* During X12-to-UDF translation for IMPAC, unnecessarily strict envelope date validation causes some messages to fail translation. (The envelope dates are already validated by the core ECPN parser to ensure X12 compliance.)

    Solution: Modified the STANFINS, SOMARDS, and SIFS X12-to-UDF maps to relax date restrictions for the ISA and GS segment date fields.

2. *Problem:* (EDR11169915560) When the CAPS 810 map translates an X12 message to UDF, it changes the format of certifying official names. The X12 format of the names (last name, first name, middle initial) is converted to a different format in the UDF (first name, middle initial, last name). The bank that sends the X12s has revised their message generator to supply the correct format for certifying official names, so the map no longer needs to convert the format of names.

    Solution: Modified the CAPS 810 map so that it does not reverse the format of certifying official names.

MAP Version 2.0.0.14 (15 December 1999)

1. *Enhancement:* Modified the GTN 3030 and 3060 315 map to make element Q209 (Flight/Voyage Number) optional when the B403 status code is "EE". (Element Q209 remains mandatory for all other status codes.)

2. *Problem:* In accordance with the GTN Interface Requirements Design Document (IRDD), the GTN 3030 and 3060 315 map requires that element R406 (DODAAC of Final Destination) be mandatory for port function codes of "1" or "M". Users now require compliance with the 315 Implementation Convention (IC), which makes element R406 optional.

    Solution: Updated the GTN 3030 and 3060 315 map to make element R406 optional for port function codes of "1" or "M". Lockheed Martin will also update the GTN IRDD to comply with this requirement.

3. *Problem:* The GTN 3060 315 map contains only the reference qualifiers for the restriction list for element N901 required by the IRDD. Users now require compliance with the 3060 315 IC, which contains more reference qualifiers for the restriction list for element N901.

Solution: Updated the GTN 3060 315 map so that the restriction list for element N901 contains all of the reference qualifiers listed in the 3060 315 IC. Lockheed Martin will also update the GTN IRDD to comply with this requirement.

4. *Enhancement:* Added the STARS-WINS map family. This map family is now included in the list of map families that may be selected when configuring a channel. For a detailed description of the map family, see the map description file that appears in the DESCRIPTION box in the TRANSLATION tab of the edit channel window (accessed as described in Section 4.1.2 of the Software User's Guide for Electronic Commerce Processing Node).

MAP Version 2.0.0.13 (30 November 1999)

1. *Enhancement:* For the GTN 315 map for 3030 and 3060 transactions, made the following elements optional: Q201 (Vessel Code) and Q212 (Vessel Code Qualifier). This modification supports a recent decision to make the vessel code and vessel code qualifier optional for barge shipments.

2. *Problem:* The GTN 315 map inserts a "0" in field 6 (century stamp) of the DTM segment during translation of an X12 message to an outgoing UDF message when the X12 message does not contain the element DTM05 (century). When the element DTM05 is unavailable, an alternate means of populating this field is necessary.

   Solution: Updated the GTN 315 maps for 3030 and 3060 transactions to use the following rules to populate field 6 (century stamp) of the DTM segment when the element DTM05 (century) is unavailable in the outgoing UDF message:

   If the first two characters of element DTM02 (Date: YYMMDD) are greater than or equal to 70, insert "19."

   If the first two characters of element DTM02 (Date: YYMMDD) are less than or equal to 69, insert "20."

3. *Problem:* The century stamp calculation does not work for the following GTN UDF segments:

   315 (3030 and 3060): HDR, STD, REF, STS, EVD
   214 (3020 and 3040): HDR, REFH, REFO, REFD, ROU, STD, REFS
   214 (3050): HDR, REFH, REFO, REFD, ROU, STD, REFS, REFC, CSTD, PREF, POCD

   Solution: For the GTN X12-to-UDF map and the GTN 997 UDF map, fixed the century stamp calculation for all of the GTN transaction types.

4. *Problem:* The CAPS IMPAC X12-to-UDF translation map does not properly handle the FA/02 (date range) when neither date in the range is "1999", resulting in UDF field values of "X".

   Solution: Modified the CAPS IMPAC X12-to-UDF translation map to parse the FA/02 (date range) and to properly fill the resulting UDF fields.

Map Version 2.0.0.12 (9 November 1999)

Enhancement: Added the following map families to support interactions with the US Bank for International Purchase Card transactions:

SOMARDS_PC
SIFS_PC
CAPS_PC
STANFINS_PC

These map families are now included in the list of map families that may be selected when configuring a channel. For a detailed description of each map family, see the map description file that appears in the DESCRIPTION box in the TRANSLATION tab of the edit channel window (accessed as described in Section 4.1.2 of the Software User's Guide for Electronic Commerce Processing Node.

Version 2.0.0.11 (29 October 1999)

1. *Problem:* In accordance with the GTN Interface Requirements Design Document (IRDD), the GTN 3060 315 map allows 25 characters for the element R403. Users now require compliance with the 315 Implementation Convention (IC), which allows a different number of characters for this element.

   Solution: Updated the GTN 3060 315 map to allow 30 characters in element R403 to comply with the 315 IC. Lockheed Martin will also update the GTN IRDD to comply with this requirement.

2. *Enhancement:* Modified the GTN 3060 315 map to make element Q209 (Flight/Voyage Number) optional when the B403 status code is "EE". (Element Q209 remains mandatory for all other status codes.)

3. *Enhancement:* When translating from X12 to UDF for GTN 3060 315 transactions, modified the map to convert the B403 status code "A" (Arrival) to "VA" (Vessel Arrival).

Version 2.0.0.10 (28 September 1999)

Problem: (SAACONS only) When an X12 838 Vendor Profile message is translated to a UDF message, a negative sign ("-") is incorrectly added to the Quantity field in Record 66 of the UDF. The source for the Quantity field's content (i.e., the PAM02 field in the X12 838) contains a positive value.

Solution: The X12 838 is translated using the newly developed 838 Version 4010 map. This map is technically correct in its definition and management of the PAM02 field; however, determined that the presence of leading zeros in this field causes the translation engine to negate the value in the corresponding Quantity field. Modified the 4010 message definition to properly handle the presence of leading zeros.

Version 2.0.0.9 (20 September 1999)

1. *Problem:* Several incoming IPC, 'X'-type, UDF transactions improperly contain an empty (composed of all null values or spaces) Vendor ID field in Record 2. The content of this field is used to populate the N104 field in the corresponding X12 message destined for the Federal Reserve Board (FRB). The N104 field cannot contain null values or spaces.

Solution: At the request of the Defense Finance and Accounting Service (DFAS) Program Management Office (PMO), each empty Vendor ID field in Record 2 is now replaced by a series of '1's in the corresponding X12 message.

2. *Problem:* Several incoming IPC, 'P'-type, UDF transactions improperly contain an empty (composed of all spaces) Vendor ID field in Record 2. The content of this field is used as a trading partner database lookup key to populate the ISA07, ISA08 and GS03 fields in the corresponding X12 message. When the empty value is used as a lookup key, a database lookup error should be generated. Instead, the X12 message is generated, containing empty ISA07, ISA08 and GS03 fields.

   Solution: Modified the IPC UDF to X12 map to ensure that a lookup key equal to an empty value is considered a lookup failure.

Version 2.0.0.8 (27 August 1999)

1. *Problem:* The message description files for the following systems do not contain a method for determining how to translate a two-digit year into the appropriate four-digit year:

   PADDS_Apr
   ADS-DTS
   DBMS-DTS
   DIFMS-DTS
   DTS-CUI
   DWAS-DTS
   GTN
   IFAS-DTS
   IPC
   LEGACY-DTS
   SPS
   STARS-DTS
   SAACONS

   Solution: Developed "sliding century windows" for each of the systems listed above. Each two-digit year received will translate into the appropriate four-digit year within this window. For example, the sliding century window for SPS is 1970-2069. The two-digit year "72" in an incoming SPS UDF will translate to "1972" in the outgoing X12. The four-digit year "2072" is not an appropriate value, because it lies outside the upper limit of "2069" for an SPS message.

   The sliding century windows for the systems are as follows:

   PADDS_Apr: 1960-2059
   ADS-DTS: 1970-2069
   DBMS-DTS: 1970-2069
   DIFMS-DTS: 1970-2069
   DTS-CUI: 1970-2069
   DWAS-DTS: 1970-2069
   GTN: 1970-2069
   IFAS-DTS: 1970-2069
   IPC: 1970-2069

LEGACY-DTS: 1970-2069
SPS: 1970-2069
STARS-DTS: 1970-2069
SAACONS: 1970-2069

2. *Enhancement:* Improved the error reporting capability of the PADDS 824 maps.

3. *Problem:* During SPS UDF to X12 840 translation, if the value of Record 11, Field 2 (which translates to PID01 on the X12 side) equals "X", then both Record 11-Field 5 and Record 11, Field 6 must contain values. Currently, the SPS map does not enforce this requirement.

   Solution: Modified the SPS map to fail a UDF that does not contain values in both Record 11, Field 5 and Record 11, Field 6 when Record 11, Field 2 equals "X".

4. *Problem:* When performing X12 to UDF translation for 843, 855, and 865 transactions, the SPS map incorrectly reverses the sender and receiver addresses.

   Solution: Modified the SPS map to no longer reverse the sender and receiver addresses during X12 to UDF conversions.

5. *Problem:* SAACONS UDF messages created exactly at midnight, such that the UDFCreateTime field in Record01 has a value of "00000000", fail translation.

   Solution: Modified the SAACONS UDF to X12 map to allow a UDFCreateTime value of "00000000" for all transaction types.

6. *Problem:* The Central Contractor Registration (CCR) office is migrating to X12 V4010 for its 838 Vendor Profile messages, but the current SAACONS 838 map translates only V3070.

   Solution: Revised the SAACONS 838 map to successfully translate both V3070 and V4010 838 messages.

Version 2.0.0.7 (IPC only) (23 August 1999)

Problem: The IPC UDF specification requires that the vendor ID field in "T" transactions contains 10 characters. The IPC UDF to X12 translation maps (developed for ECPN Translation Segment, Version 2.0.0.6) were developed to match this specification. However, the software developed by IPC requires 13 characters for this field. As a result, all IPC "T" transactions fail UDF to X12 translation.

Solution: Modified the IPC UDF to X12 translation maps to match the IPC software. The vendor ID field for all "T" transactions is now defined as 13 characters.

Version 2.0.0.6 (IPC Only) (21 August 1999)

Enhancement: The IPC UDF format now allows the use of DUNS and DUNS+4 numbers for addressing. Thus, the IPC maps were modified to accommodate these new addressing options.

3.3 Related Documents

This section lists documents pertinent to the Translation Maps Segment (in addition to this SVD). Note that TSI International Software, Ltd. is now known as Mercator.

- *Mercator: Execution Engine Core API Reference Guide*, TSI International Software, Ltd., 1997.
- *Mercator: Map Editor Reference Guide*, TSI International Software, Ltd., 1997.
- *Mercator: Type Editor Reference Guide*, TSI International Software, Ltd., 1997.
- *Security Manager's Guide for DOD E-Business Exchange System, Version 3.0*, INRI, May 2000.

3.4 Installation Instructions

To install the Translation Maps Segment, Version 3.1, see the *System Administrator's Guide for DEBX*, Section 7.4.8.

3.5 Possible Problems and Known Errors

None

4.0 Notes

The following acronyms and abbreviations appear in this document:

CCR: Central Contractor Registration

CFM: CONUS Freight Management

CLM: Car Location Message

DEBX: DOD E-Business Exchange System

DFAS: Defense Finance and Accounting Service

DID: Data Item Description

DISA: Defense Information Systems Agency

DTS: Defense Travel System

DUNS: Data Universal Numbering System

EDA: Electronic Document Access

FRB: Federal Reserve Board

GTN: Global Transportation Network

GUI: Graphical User Interface

IGS: Integrated Garnishment System

INRI: Inter-National Research Institute

IPC: Integrated Paying and Collecting

IRDD: Interface Requirements Design Document

JDS: Journal Data Summary

PADDS: Procurement Automated Data and Document System

PDF: Portable Document Format

PMO: Program Management Office

SAACONS: Standard Army Accounting and Contracting System

SPS: Standard Procurement System

SVD: Software Version Description

TPDB: Trading Partner Database

UDF: User-Defined File